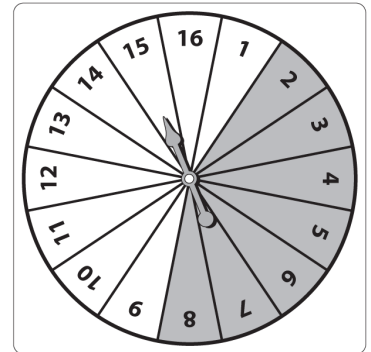# Worksheet 10-6 - PreAlgebra
Probability of Simple Events

A spinner like the one shown is used in a game. Determine the probability of each outcome if the spinner is equally likely to land on each section. Express each probability as a fraction and as a percent. Then describe the likelihood of the event. Write *impossible, unlikely, equally likely, likely,* or *certain.*

1. $P(15)$

2. $P(\text{even})$

3. $P(\text{greater than 10})$

4. $P(\text{perfect square})$

A hat contains 8 orange, 20 purple, 9 pink, and 3 brown slips of paper. A slip of paper is selected without looking. Determine the probability of each outcome if it is equally likely to select each slip of paper. Express each probability as a fraction and as a percent. Then describe the likelihood of the event. Write *impossible, unlikely, equally likely, likely,* or *certain*.

5. $P(\text{pink})$

6. $P(\text{purple})$

7. $P(\text{orange})$

8. $P(\text{not brown})$

9. $P(\text{not purple})$

10. $P(\text{not pink})$

11. $P(\text{blue})$

12. $P(\text{brown})$

13. $P(\text{not orange})$

A spinner labeled 1-8 was spun. The table shows the frequency of each number the spinner landed on. Determine the probability of each outcome if it is equally likely that the spinner landed on each section. Express each probability as a fraction and as a percent. Then describe the likelihood of the event. Write *impossible, unlikely, equally likely, likely,* or *certain*.

Number	1	2	3	4	5	6	7	8
Frequency	6	14	11	14	15	8	5	7

14. $P(4)$

15. $P(3 \text{ or } 5)$

16. $P(\text{not 1})$

17. $P(\text{prime})$

18. $P(\text{odd})$

19. $P(\text{not 4 or 7})$